

Date: Wed, 15 Jun 94 04:30:23 PDT  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #162  
To: Ham-Homebrew

Ham-Homebrew Digest                    Wed, 15 Jun 94                    Volume 94 : Issue 162

Today's Topics:

(none)

40 Meter QRP CW transciever and 65 W computer power supply for sale  
    Beware of RADIOKIT kits (IMHO)  
    Boonton VHF Q meter help  
    HP8052-3081 PIN diodes  
Ideas for 100Hz-100KHz HV xfmr?  
Instrumentation coaxial relays?  
    Kits (2 msgs)  
Lowfer (1750) plans requested.....  
    midnight engineering  
Old semiconductors (2 msgs)  
    Packet modem ?  
Painting a 1.2GHz Antenna (2 msgs)  
    Service Manual for a Tek 465M

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>

Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 14 Jun 94 15:12:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: (none)  
To: ham-homebrew@ucsd.edu

David Fox  
ihnp4.ucsd.edu!swrinde!cs.utexas.edu!news.unt.edu!news.oc.com!merlin.etsu.ed  
u!t  
talon@network.ucsd.edu Writes:

>Does anyone know where I can get plans for the Lowfer (1750) band. I am  
>interested in both CW and Voice.  
>  
>Thanks,  
>David Fox  
>KB5ULK

Dave,

Send me your fax number (if you have one) or mail (post) address and  
I'd be glad to send you a couple of articles on 1750 band.

Kevin

**Legal stuff:**

The above opinions are my own and not necessarily those of the staff,  
faculty, administration, or lab animals (woof!) of The University of  
Texas Health Science Center at San Antonio.

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Kevin R. Muenzler, WB5RUE  
muenzlerk@uthscsa.edu

The University of Texas Health  
Science Center at San Antonio,  
Department of Computing Resources

\*\* There is no such thing as a Monkey-Proof Program! \*\*  
\*\* I can prove it! \*\*

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Date: Tue, 14 Jun 1994 12:29:37 GMT  
From: rit!isc-newsserver!ultb!bad1679@cs.rochester.edu  
Subject: 40 Meter QRP CW transciever and 65 W computer power supply for sale  
To: ham-homebrew@ucsd.edu

I am selling a homebrew 40 meter cw transciever. It covers 7.000-7.075  
and about 7.100 - 7.175 mhz, puts out about 2 watts. The receiver is a  
direct conversion type, but uses very good audio filtering.

The rig was based on the article in August 1980 issue of QST by W7EL and  
improved with better double tuned band pass filter and a chebychev filter in  
front of the audio preamp.

I am also selling a 65 Watt computer power supply (I believe it came out of an  
XT).

Any inquiries, please email to bad1679@ultb.isc.rit.edu

Thanks..

Bernie Doehner nu1s/2

--  
Electrical Engineering, Rochester Institute of Technology, Rochester,NY  
Ax25 Packet: NU1S @ WB2PSI.#WNY.NY.USA.NOAM (normal packet route)  
TCP/IP: nu1s@nu1s.ampr.org [44.69.0.37]  
Internet (school): bad1679@ultb.isc.rit.edu

--  
Electrical Engineering, Rochester Institute of Technology, Rochester,NY  
Ax25 Packet: NU1S @ WB2PSI.#WNY.NY.USA.NOAM (normal packet route)  
TCP/IP: nu1s@nu1s.ampr.org [44.69.0.37]  
Internet (school): bad1679@ultb.isc.rit.edu

-----  
Date: 14 Jun 1994 17:40:45 GMT  
From: butch!rapnet.sanders.lockheed.com!deacon.sanders.lockheed.com!  
chappell@uunet.uu.net  
Subject: Beware of RADIOKIT kits (IMHO)  
To: ham-homebrew@ucsd.edu

In article <2tg8e9\$1k5@hobbes.cc.uga.edu> mcovingt@aisun1.ai.uga.edu (Michael Covington) writes:  
>From: mcovingt@aisun1.ai.uga.edu (Michael Covington)  
>Subject: Re: Beware of RADIOKIT kits (IMHO)  
>Date: 13 Jun 1994 00:15:05 GMT

>That is unfortunate. Radiokit has been around for quite a few years;  
>surely they wouldn't have lasted that long if that kind of performance  
>were the norm.

>--  
>< Michael A. Covington, Assc Rsch Scientist, Artificial Intelligence Center >  
>< The University of Georgia, Athens, GA 30602-7415 USA mcovingt@ai.uga.edu >  
>< Unless specifically indicated, I am not speaking for the University. > <><  
>For information about any U.Ga. graduate program, email gradadm@uga.cc.uga.edu.

Not going to mention any callsigns or names but RadioKit was founded by a very nice couple who are well known in amateur circles in NE and all over. They no longer own it and the present owner does not seem to be interested in providing the level of service and quality that was originally there under the earlier management. In fact the previous owners are disappointed with how things are being presently handled. Thats all I will say except

this should be a wake-up call to the present owner.

Joel - KC1SG

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| ~~~~~|  
| Joel B. Chappell - KC1SG | Lockheed Sanders |  
| Principal Engineer - Electrical | Nashua, NH 03061 |  
|  
| -- Standard Disclaimer: All opinions are mine. =- |  
|  
| E-Mail to: chappell@rapnet.sanders.lockheed.com |  
| or |  
| Fido: 1:132/204.1 |  
|  
| ~~~~~|
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Date: Tue, 14 Jun 94 22:41:29 EDT  
From: anagld!wb3ffv!hambbs!Mike.Czuhajewski@uunet.uu.net  
Subject: Boonton VHF Q meter help  
To: ham-homebrew@ucsd.edu

I recently picked up an old Boonton model 190A Q meter. This is the VHF version, covering something like 20 to 260 MHz. Does anyone have any information on it? It seems to work OK, but operating instructions would still be helpful, even though it's easy enough to figure out for the most part. How about a schematic? That would be really appreciated!

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Date: Tue, 14 Jun 1994 17:05:25 GMT  
From: ihnp4.ucsd.edu!agate!darkstar.UCSC.EDU!nic.scruz.net!cruzio!  
erics@network.ucsd.edu  
Subject: HP8052-3081 PIN diodes  
To: ham-homebrew@ucsd.edu

In article <2tje8v\$cqq@gerald.cc.utexas.edu>, bsn@ziggy.ph.utexas.edu () writes:  
>  
> Can anyone suggest a source for small lot quantities of the above  
> referenced PIN diode?  
>  
> Thanks,

I've found a couple of sources:

Newark electronics sells them individually for \$2.21 ea, 1.95 in 100's  
call 1-800-298-3133 x48 for a catalog and info.

Penstock also has them, but only in lots of 100, for @2.00 ea  
call 1-408-730-0300 They will also send you an HP catalog if you  
ask.

I'm looking for the chip capacitor version of the 3081, called the HPND-0002.  
Penstock has them, but again only in 100 lots - Anyone interested in getting  
together on an order?

Eric, WA6HHQ erics@cruzio.com

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Date: 14 Jun 1994 17:39:38 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!concert!news.wfu.edu!ac!  
matthews@network.ucsd.edu  
Subject: Ideas for 100Hz-100KHz HV xfmr?  
To: ham-homebrew@ucsd.edu

I need an audio (100 Hz -100 KHz) transformer with a secondary that  
can go to around 1000 volts. Current is very low, less than 1 mA.

I'm actually using this to apply an alternating electric field to  
a small crystal for an experiment I want to do.

Any ideas? Any suggestions for something off the shelf, or if not  
what I should worry about in winding my own?

I might be able to get by using a different approach with a 400 volt  
secondary.

Thanks for your help.

--  
Rick Matthews matthews@wfunet.wfu.edu Ham radio:  
Wake Forest University 910-759-5340 (Voice) WA4GSP  
Winston-Salem, NC 27109-7507 910-759-6142 (FAX)

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Date: Tue, 14 Jun 1994 22:50:18 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!darwin.sura.net!  
fconvx.ncifcrf.gov!mack@network.ucsd.edu  
Subject: Instrumentation coaxial relays?  
To: ham-homebrew@ucsd.edu

In article <2tjhos\$ii7@nntpdlkg.dec.com> little@iamu.chi.dec.com (Todd Little) writes:

>  
>I'm building transverters for 903 MHz and 1296 MHz and wondering whether  
>I can use some coaxial relays I picked up at a hamfest for use in T/R  
>switching at low power.

The concerns you have are real enough, but the one you've forgotten is the isolation between the poles. If you have 30db isolation and you're running 10W, then 10mW will be coming into your receiver front end. I think that's near the limit for a FET (someone else may know better). If it's an instrumentation relay, it may only be good at HF. At 1Ghz it may have no isolation. Having a relay that's not resistive at 1Ghz will cause more problems than you'll ever want to know about even if it is 75ohms rather than 50ohms. Either buy one that's known to be OK, or measure the one you have on a network analyser.

Joe Mack NA3T  
mack@ncifcrf.gov

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Date: Wed, 15 Jun 1994 00:02:29 GMT  
From: ihnp4.ucsd.edu!swrinde!sdd.hp.com!col.hp.com!news.dtc.hp.com!hplextra!  
hpwrce!tonyz@network.ucsd.edu  
Subject: Kits  
To: ham-homebrew@ucsd.edu

In rec.radio.amateur.homebrew, mgalatz@panix.com (Menachem Galatz DC) writes:

> Is there such a thing as a kit to build a tube receiver

Menachem, if you don't find one and want a good reference book for building your own tube receiver, let me know by email.

Finding the parts can be a real bear, especially if you can't get to a ham radio flea market or know old codger with an extensive junk box (and to think when I was a lad I had all that stuff too, tubes, sockets, coils, switches and air-variable caps by the truckloads!)

I just saw a book at Tower Record Bookstore that had to do with building tube radios...most of them I saw used dry cells for B+ and bias. Most of the circuits looked like low plate voltages..much safer believe me... I built a two-tube regenerative radio with 450VDC B+ when I was a kid... unfortunately, the headphones were in series with B+ and the cables were frayed...needless to say, I contacted the B+ at the ear and got knocked off my chair and landed about 6 feet away

on the floor. I have a real respect for that B+ jive! I forgot the title of the book, but I can get it for you, ok?

Glad to see you are interested in tubes....they sure bring back a lot of memories...

Tony WB6TRU

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Date: Tue, 14 Jun 1994 22:47:11 GMT  
From: rde!gator!tous!rjck!ocelot!stardust!kc4zvw@uunet.uu.net  
Subject: Kits  
To: ham-homebrew@ucsd.edu

In article <TROCH.94Jun12135608@gandalf.rutgers.edu>, Rod Troch <troch@gandalf.Rutgers.EDU> wrote:

>Howdy,  
>  
>I am a new ham, waiting for my license. While I wait patiently for those  
>12 weeks to pass I figured I would start building some things. One  
>thing I would like to build is a CW practice oscillator.  
>  
>Do you have any simple instrctions and parts list for such a job, or  
>do you know of any place that sells such kits?

The ARRL book, "Tune in the World" and its replacement "Now your talking"? has plans for a code-practice oscillator project in chapter 3.

73 de David

--  
David Billsbrough  
kc4zvw@stardust.oau.org

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Date: Wed, 15 Jun 1994 03:52:11 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!  
ns.mcs.kent.edu!kira.cc.uakron.edu!malgudi.oar.net!witch!ted!  
mjsilva@network.ucsd.edu  
Subject: Lowfer (1750) plans requested.....  
To: ham-homebrew@ucsd.edu

In article <1994Jun13.221112.14134@ra.oc.com>, David Fox (KB5ULK)  
(talon@merlin.etsu.edu) writes:

>

>Does anyone know where I can get plans for the Lowfer (1750) band. I am  
>interested in both CW and Voice.

>

QST had an article on Lowfers last October, and plans for a transceiver  
(CW) this April.

73,  
Mike, KK6GM

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Date: Tue, 14 Jun 1994 23:52:22 GMT  
From: ihnp4.ucsd.edu!usc!sdd.hp.com!col.hp.com!news.dtc.hp.com!hplextra!hpwrce!  
tonyz@network.ucsd.edu  
Subject: midnight engineering  
To: ham-homebrew@ucsd.edu

I just went to Tower Record Bookstore here in Mountain View, Ca.  
at lunch looking for Midnight Engineering Magazine. None to be  
found. I hope they haven't packed their bags. The title itself  
sort of makes you wonder if you should send away for a subscription  
or keep buying off the shelf. The sure have some cool articles, though!

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Date: 14 Jun 1994 17:21:53 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!  
MathWorks.Com!yeshua.marcam.com!zip.eecs.umich.edu!umn.edu!newsdist.tc.umn.edu!  
dawn.mmm.com!tcdsp1!tahir@network.ucsd.  
Subject: Old semiconductors  
To: ham-homebrew@ucsd.edu

Hi,  
I hope this is an appropriate group for this subject.  
I need a telephone number or address of some outfit that can supply obsolete  
transistors and other semiconductor devices.  
Please email directly.  
Thanks.

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\* The opinions expressed are mine and do not reflect the views of\*  
\* Twinix Systems Inc. or 3M. \*  
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Date: 14 Jun 1994 18:53:04 GMT

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!  
umn.edu!newsdist.tc.umn.edu!dawn.mmm.com!tcdsp1!tahir@network.ucsd.edu  
Subject: Old semiconductors  
To: ham-homebrew@ucsd.edu

I am looking for the following parts any info on supplier would be appreciated:

2N6782	X	80
2N6844	X	50
2N8844	X	30
2N5070	X	90
SD70A (SCR)	X	20
BFX34	X	60
BB109	X	60

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\* The opinions expressed are mine and do not reflect the views of\*  
\* Twinix Systems Inc. or 3M. \*  
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Date: 15 Jun 1994 07:03:03 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!EU.net!  
news.forth.gr!helios.intranet.gr!phaethon!demetre@network.ucsd.edu  
Subject: Packet modem ?  
To: ham-homebrew@ucsd.edu

CQ Netters,

Does anyone have a scematic of a homebrewed packet modem that actually works ??  
Please reply via e-mail...

73's

demetre@intranet.gr

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Date: 14 Jun 1994 13:49:58 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!math.ohio-state.edu!  
jussieu.fr!univ-lyon1.fr!elendir@network.ucsd.edu  
Subject: Painting a 1.2GHz Antenna  
To: ham-homebrew@ucsd.edu

John Reynolds (johnr@soul.tv.tek.com) wrote:

: Will a coat of paint degrade the performance of a 1.2Ghz antenna? I have a  
: loop yagi from Downeast Microwave that I'd like to spray with some  
: "camouflage" paint. Any info is appreciated.

The Tour Eiffel transponder 70 to 30 cm has a painted antenna... The painting has no metallic components, though. The machine works fine !!!

Vince, F1RCS.

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Date: Wed, 15 Jun 1994 09:01:40 GMT  
From: ihnp4.ucsd.edu!swrinde!pipex!uknet!bcc.ac.uk!news@network.ucsd.edu  
Subject: Painting a 1.2GHz Antenna  
To: ham-homebrew@ucsd.edu

In article hmm@news.tv.tek.com, johnr@soul.tv.tek.com (John Reynolds) writes:

>  
> Will a coat of paint degrade the performance of a 1.2Ghz antenna? I have a  
> loop yagi from Downeast Microwave that I'd like to spray with some  
> "camouflage" paint. Any info is appreciated.  
>  
> Thanks,  
>  
> John Reynolds NZ7J  
>  
>

There is a conformal coating available from RS and Farnell in the UK. If you need exact type, mail me directly. Anyway, it is said to have good dielectric properties. To get the best from it, you need to bake at ~200 deg C for a couple of hours. I did intend using it to increase the working voltage of an air-spaced cap at 144MHz once. I must have been satisfied it would be okay at that frequency anyway. As a matter of interest, it is said to withstand an E field of 50kV/mm.

davek

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Date: Tue, 14 Jun 94 16:14:06 CST  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!iat.holonet.net!vulcan!  
gary@network.ucsd.edu  
Subject: Service Manual for a Tek 465M  
To: ham-homebrew@ucsd.edu

Does anyone have a service manual for a Tektronix 465M 'scope ? If so, would they be willing to make a copy of it ? I would be happy to cover the costs. Please respond via email (gary@vulcan.com)

Thanks  
Gary

Gary Tennyson  
gary@vulcan.com

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Date: Tue, 14 Jun 1994 20:00:40 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!spool.mu.edu!  
sol.ctr.columbia.edu!news.ess.harris.com!adm01.rfc.comm.harris.com!  
gdian22@network.ucsd.edu  
To: ham-homebrew@ucsd.edu

References <1994Jun12.122846.1@ccsua.ctstateu.edu>,  
<2tg8e9\$1k5@hobbes.cc.uga.edu>, <chappell.20.0@rapnet.sanders.lockheed.com>  
Subject : Re: Beware of RADIOKIT kits (IMHO)

Hello All -

I can't speak about RadioKit kits, but I sent money for a catalog a year ago and never received it. From what was posted on the Internet back then, I wasn't the only one. I talked to the owner while at Dayton this year. I inquired about getting a catalog, so that I might be able to purchase some parts. Well, he said they were out. I asked how then might I order parts (read, how can I send you money, so that you might profit from it) and his reply was that maybe I could get together with someone in my area and use their catalog.

Enough said. I will only twist a person's arm so hard, in order for them to take my money for goods and/or services.

73, gary n2jgu  
p.s. try dan's small parts and kits,  
624 kits,  
oak hills research,  
mouser

I have ordered mucho stuff from all the above and have never felt cheated or ignored. In fact, dan's has the nn1g superhet on sale for \$40 (everything but case)... a good deal for someone with intermediate building skills.

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End of Ham-Homebrew Digest V94 #162

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